

FOREST CONSERVATION NOTES:

1. ANY FOREST CONSERVATION EASEMENT (FCE) AREA SHOWN HEREON IS SUBJECT TO PROTECTIVE COVENANTS WHICH MAY BE FOUND IN THE LAND RECORDS OF HOWARD COUNTY WHICH RESTRICT THE DISTURBANCE AND USE OF THESE AREAS.

2. THE FOREST CONSERVATION EASEMENTS HAVE BEEN ESTABLISHED TO FULFILL THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE, FOREST CONSERVATION ACT. NO CLEARING, GRADING, OR CONSTRUCTION IS PERMITTED WITHIN THE FOREST CONSERVATION EASEMENTS; HOWEVER, FOREST MANAGEMENT PRACTICES AS DEFINED IN THE DEED OF FOREST CONSERVATION EASEMENT ARE ALLOWED

3. LIMITS OF DISTURBANCE SHALL BE RESTRICTED TO AREAS OUTSIDE THE LIMIT OF TEMPORARY FENCING OR THE FCE BOUNDARY, WHICHEVER IS GREATER.

4. THERE SHALL BE NO CLEARING, GRADING, CONSTRUCTION OR DISTURBANCE OF VEGETATION IN THE FOREST CONSERVATION EASEMENT, EXCEPT AS PERMITTED BY HOWARD COUNTY DPZ.

5. NO STOCKPILES, PARKING AREAS, EQUIPMENT CLEANING AREAS, ETC. SHALL OCCUR WITHIN AREAS DESIGNATED AS FOREST CONSERVATION EASEMENTS.

6. TEMPORARY FENCING SHALL BE USED TO PROTECT FOREST RESOURCES DURING CONSTRUCTION. THE FENCING SHALL BE PLACED ALONG ALL FCE BOUNDARIES WHICH OCCUR WITHIN 15 FEET OF THE PROPOSED LIMITS OF

7. PERMANENT SIGNAGE SHALL BE PLACED 50-100' APART ALONG THE BOUNDARIES OF ALL AREAS INCLUDED IN FOREST CONSERVATION EASEMENTS.

8. THE FOREST CONSERVATION OBLIGATION FOR THIS SITE SHALL BE MET BY THE ON-SITE RETENTION AMOUNT OF 1.22 ACRES. THE REMAINING 0.68 WILL BE PROVIDED BY AN OFFSITE BANK (TBD) OR FEE-IN-LIEU.

THE WATERSHED FOR THIS DRAINAGE AREA IS THE MIDDLE PATUXENT RIVER, DNR LISTING NUMBER 2111306.

FOREST CONSERVAT	ION EASEMENT	CHART		
EASEMENT AREA	TYPE	CREDITED A	AREA	
1.67 AC.	RETENTION	1.22 AC	1.22 AC.	

	SPECIMEN TREE TABLE							
NO.	COMMON NAME	SCIENTIFIC NAME	DBH (IN.)	CONDITION	RATING	CONDITION/COMMENTS		
1	YELLOW POPLAR	LIRIODENDRON TULIPIFERA	30	GOOD		MINOR BROKEN LIMBS		
2	BLACK CHERRY	PRUNUS SEROTINA	32(TWIN)	POOR		BROKEN LIMBS, TRUNK DAMAGE, SPLIT @ 7'		
3	BLACK CHERRY	PRUNUS SEROTINA	32	POOR		3-TRUNK SPLIT @ 5.5', ONE TRUNK DEAD, BROKEN LIMBS		

REFLECTIVE

OR SPECIFIED

MARKER DETAIL

FCE CARSONITE MARKER NOT TO SCALE

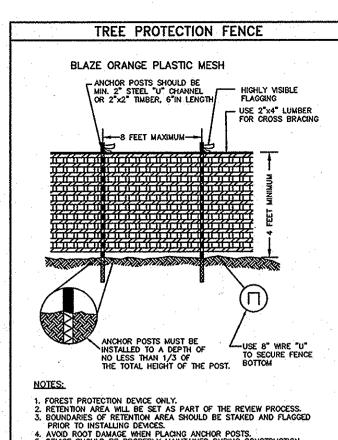
DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY

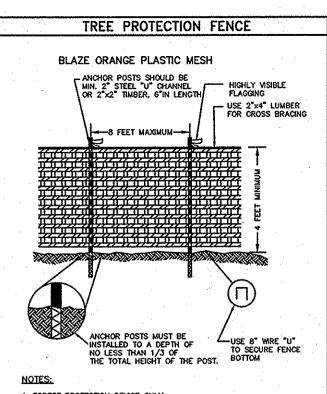
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MARKER - SECTION VIEW

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1. FOREST PROTECTION DEVICE ONLY.
2. RETENTION AREA WILL BE SET AS PART OF THE REVIEW PROCESS.
3. BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED PRIOR TO INSTALLING DEVICES.
4. AVOID ROOT DAMAGE WHEN PLACING ANCHOR POSTS.
5. DEVICE SHOULD BE PROPERLY MAINTAINED DURING CONSTRUCTION
6. PROTECTIVE SIGNAGE IS ALSO REQUIRED.

FOREST PROTECTION PROCEDURES - Preconstruction Phase

1) The edge of the woods to be protected will be marked (staked Forest and tree conditions should be monitored during or flagged) in the field per the limits of forest construction and corrective measures taken when approx conservation easement shown in the approved site development plan prior to the start of construction activity. All areas within protective easement are to be considered "off limits" to any construction activities. The optional protective fencing shall be installed at the outside edge of forested areas and should be combined with sediment control devices when possible. The limit of the critical root zone and therefore the location of the protective devices is to be determined as follows:

Edge of Forested Area - 1 foot of protective radius/inch of DBH or an eight foot protective radius, whichever is greater.

Critical Root Zone for the forest on this site is an average of 12 feet from the trunk of the tree. Critical root zone for the Specimen Tree is 30'.

2) Construction activities expressly prohibited within the preservation areas are:

Placing or stockpiling backfill or top soil in protected

Felling trees into protected areas Driving construction equipment into or through protected Burning in or in close proximity to protected areas Stacking or storing supplies of any kind Concrete wash—off areas. Conducting trenching operations Grading beyond the limits of disturbance

Parking vehicles or construction equipment Removal of root mat or topsoil Siting and construction of: Utility lines Access roads impervious surfaces

Staging areas 3) Protective fencing (see Figure "Protective Fencing") shall be the responsibility of the general contractor. The general contractor shall affix signs to the fencing at 25' minimum intervals indicating that these areas are "Forest Retention Area" (see Figure "Signage"). The general contractor shall take great care to assure the restricted areas are not violated and theat root systems are protected from smothering, flooding, excessive wetting from dewatering operations, off—site runoff, spillage, and drainage or solutions containing materials hazardous to tree roots.

Stormwater management devices

4) The general contractor shall be responsible for any tree damaged or destroyed within the preservation areas whether caused by the contractor, his agents, employees, subcontractors, or licensees.

Foot traffic shall be kept to a minimum in the protective

All trees which are not to be preserved within fifty feet of any tree preservation areas are to be removed in a manner that will not damage those trees that are designated for preservation. It is highly recommended that tree stumps within this fifty foot area be ground out with a stump grinding machine to minimize damage.

7) The general contractor shall designate a "wash out" area onsite for concrete trucks which will not drain toward a protected area.

8) A pre-construction meeting shall be held with local authorities before any disturbance has taken place on site. FOREST PROTECTION PROCEDURES - Construction Phase

construction and corrective measures taken when appropriate. The following shall be monitored:

Root injury - prune and monitor; consider crown

reduction

Limb injury — prune and monitor Flooded conditions — drain and monitor; correct problem Drought conditions — water and monitor; correct problem

FOREST PROTECTION PROCEDURES - Post Construction Phase

Other stress signs - determine reason, correct, and

The following measures shall be taken:

Corrective measures if damages were incurred due to negligence:

a) Stress reduction

b) Removal of dead or dying trees. This may be done only if trees pose an immediate safety hazard.

Removal of temporary structures:

a) No burial of discarded materials will occur onsite within the conservation area.

b) No open burning within 100 feet of a wooded area.

All temporary forest protection structures will be

d) Remove temporary roads by removing stone or broadcasting mulch; pre—construction elevation should be maintained.

e) Aerate compacted soil.

f) Replant disturbed sites with trees, shrubs and/or herbaceous plants.

a) Retain signs for retention areas or specimen trees.

h) A County official shall inspect the entire site.

Future protection measures:

 a) Howard County and the developer shall arrange for the dedication of an appropriate forest conservation easement at a later date.

FOREST PROTECTION PROCEDURES - Preconstruction Phase Stress Reduction and Protection of Specimen Trees Isolated from Forest Retention Areas and

General Forest Retention Areas (as they may apply)

Isolated specimen trees that are to be preserved will be examined to determine if stress reduction techniques are needed. Protective measures and their evaluation criteria are provided on this plan only if they are employed herein.

Root Pruning **Evaluation Criteria**

Will the critical root zone be affected by construction activities such as grade changes, digging for foundations and roads or utility installation?

Design Considerations

a) Prune prior to construction as shown on the plan (see Figure "Root Pruning Detail.")

Prune root with a clean cut using proper pruning equipment

such as a vibratory knife. Exact location of pruning trench should be identified, and immediately backfilled to cover exposed roots after pruning

with soil removed other topsoil, peat moss, or other suitable material or with other high organic soil.

For trees over 15" in diameter, root pruning may be done up

to one year in advance of construction.
e) Tree(s) will be monitored for signs of stress.

Crown Reduction or Pruning

Evaluation Criteria

Has the root system been significantly reduced (>30%) or are there dead, damaged, or diseased limbs?

Design Considerations

a) Reduce only at specified times of the year: Flowering trees - only after flowering and before bud

Non-Flowering trees - in late winter, early spring or mid summer b) No more than 1/3 of the crown should be removed at one time

using acceptable pruning methods (see Figure "Crown

c) Monitor for signs of stress

Watering

Evaluation Criteria

Will construction activities alter the hydrology of the site? Has or will root pruning occur?

Design Considerations

Water only as necessary

Monitor for signs of stress (see Figure "Tree Planting and Maintenance Calendar")

Fertilizing

Evaluation Criteria

is or will be tree(s) be under stressful conditions? Has or will root pruning occur **Design Considerations**

Use low nitrogen and slow release fertilizers.

Apply in late fall or early spring (see Figure "Tree Planting and Maintenance and Calendar")

c) For small trees (<3" in diameter), use punch hole method or pressurized injection method (see Figure "Application of Fertilizers by injection.")

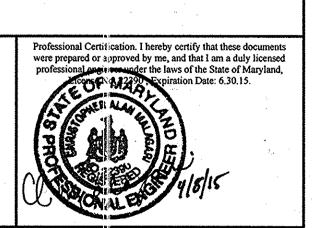
d) For larger trees (>3" diameter), use punch hole method or pressurized injuction method (see Figure "Application of

Fertilizers by Injection.")

Do not apply fertilizer any closer than 3' from tree trunk for pressurized injection method.

Monitor for signs of stress.





LISA MARIE SMITH 6128 EDWARD HILL ROAD ELLICOTT CITY, MD 21043

MICHELLE LYNN ARMSTRONG 6680 MARTIN ROAD COLUMBIA, MD 21044 **DEVELOPER:**

LEGACY INVESTMENT, LLC

ANNAPOLIS, MD 21401

410-266-5100

FOREST CONSERVATION DETAILS C/O HOGAN DEVELOPMENT, LLC DATE: 2661 RIVA ROAD, SUITE 300

MARTIN ROAD PROPERTY LOTS 1 thru 12 AND OPEN SPACE LOTS 13, 14 & 15

HOWARD COUNTY, MARYLAND PRELIMINARY EQUIVALENT SKETCH PLAN

TAX MAP 36, GRID 19, PARCELS 108 & 04 5th ELECTION DISTRICT

APRIL 2015 BEI PROJECT NO. 2567 SCALE: 5 of 6

1"=30" SHEET

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ENTATIVELY APPROVED

----- 2-1/2**"** -----

FOREST CONSERVATION

AREA

TREES FOR YOUR FUTURE DUMPING. MACHINERY, OR STORAGE OF MATERIALS, CUTTING OR DISTURBANCE OF VEGETATION OR SOIL IN THIS AREA IS STRICTLY **PROHIBITED** Howard County Code, Title 16 Subtitle 12 **VIOLATORS ARE** SUBJECT TO FINES AS IMPOSED BY THE HOWARD COUNTY FOREST CONSERVATION ACT

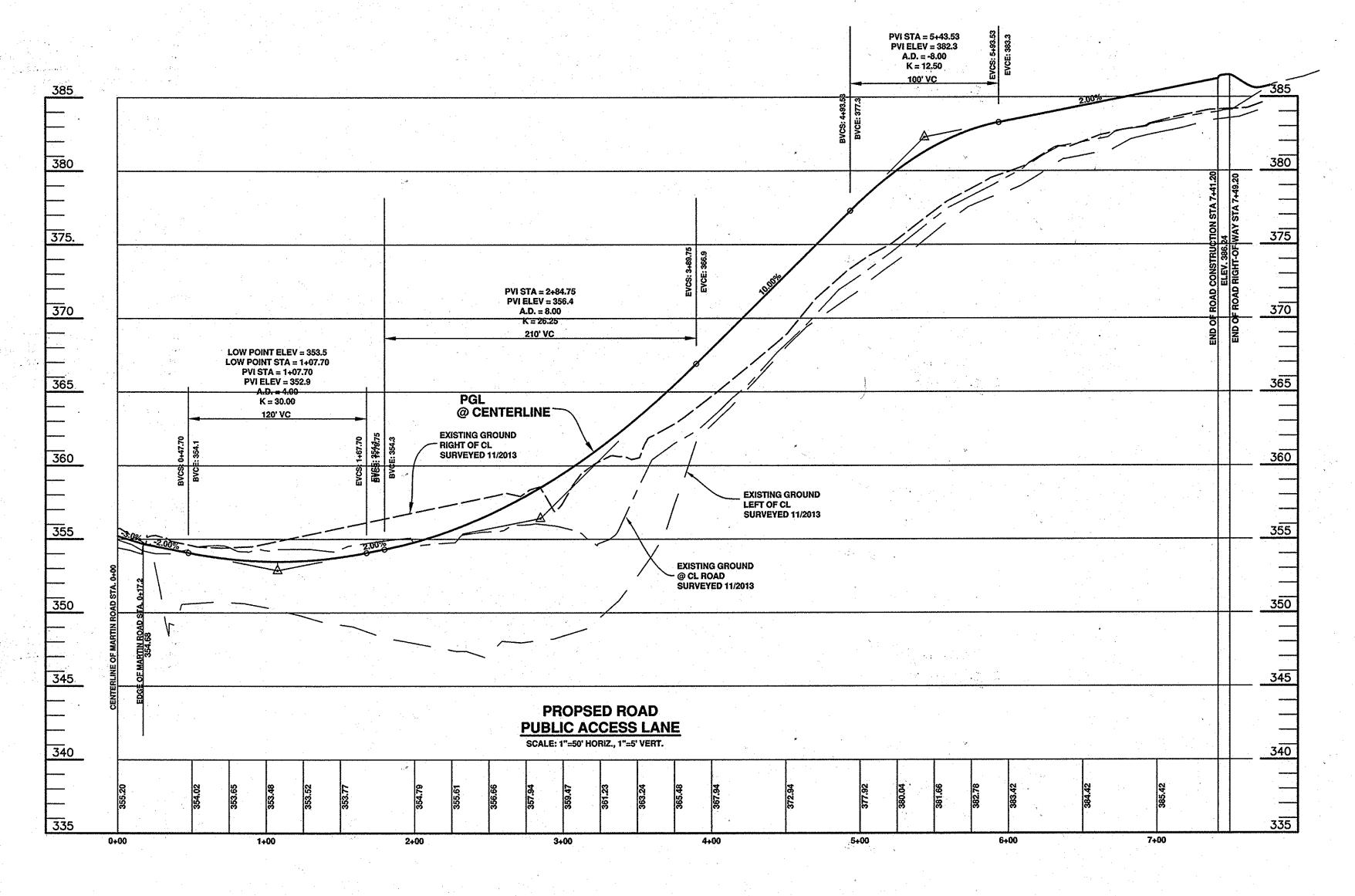
For more information or t port violations, please call Howard County epartment of Recreation and Parks, Natural Resources Division 410-313-4725 TTY 410-313-4665

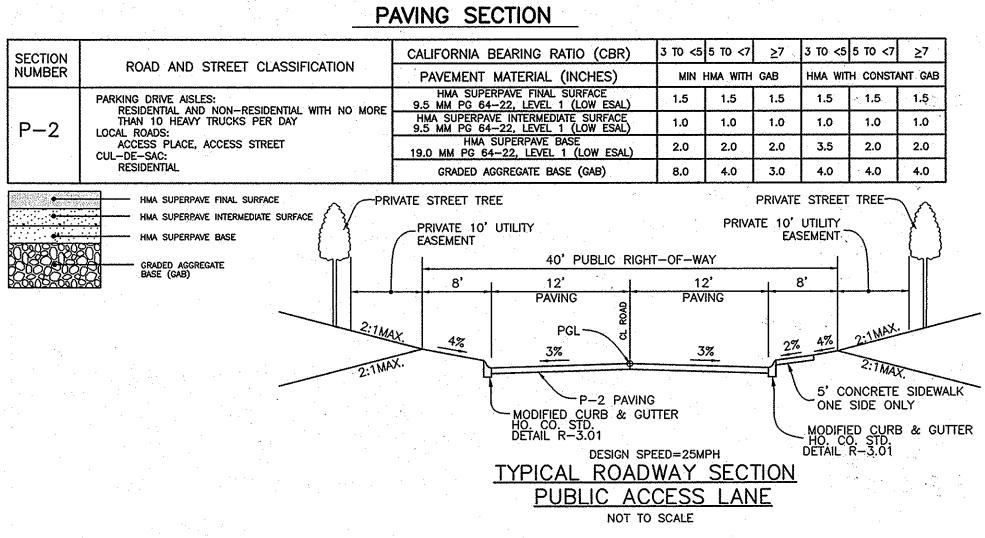
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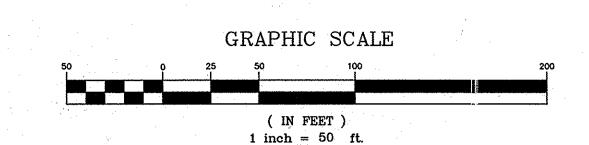
DECAL SPECIFICATIONS

SP-15-008

(P) 410-465-6105 (F) 410-465-6644 WWW.BEI-CIVILENGINEERING.COM







BENCHMARK

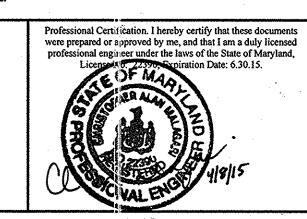
ENGINEERS & LAND SURVEYORS & PLANNERS

ENGINEERING, INC.

8480 BALTIMORE NATIONAL PIKÉ & SUITE 315 & ELLICOTT CITY, MARYLAND 21043

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OWNER:

LISA MARIE SMITH
6128 EDWARD HILL ROAD
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MICHELLE LYNN ARMSTRONG

MICHELLE LYNN ARMSTRONG 6680 MARTIN ROAD COLUMBIA, MD 21044 DEVELOPER:

LEGACY INVESTMENT, LLC
C/O HOGAN DEVELOPMENT, LLC
2661 RIVA ROAD, SUITE 300
ANNAPOLIS, MD 21401
410-266-5100

MARTIN ROAD PROPERTY
LOTS 1 thru 12 AND OPEN SPACE LOTS 13, 14 & 15

TAX MAP 36, GRID 19, PARCELS 108 & 04
5th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

PRELIMINARY EQUIVALENT SKETCH PLAN
ROAD PROFILE

DATE: APRIL 2015 BEI PROJECT NO. 2567

SCALE: 1"=50' SHEET 6 OF 6

TENTATIVELY APPROVED
DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY

PLANNING DIRECTOR

DATE